General Index to Volume 150

^{40}Ar–^{39}Ar mica dates, for Cornubian batholith, 1186–7
ABDELSALAM, M.G. & STERN, R.J., structure of the late Proterozoic Nakasib suture, Sudan, 1065–74, figs
—— & ——, tectonic evolution of the Nakasib suture, Red Sea Hills, Sudan: evidence for a late Precambrian Wilson Cycle, 393–404, figs.
Acadian sinistral shear, Maine, USA, 815–18
accretion, of island arcs, ophiolites, to Eurasia, W Junggar, NW China, 551–61
accretionary melange, Neo Formation, Jurassic, Mino terrane, Japan, 1171–7
Achill Island Dalradian, and Caledonian evolution of Laurentian margin, Ireland, 669–70
Adrar des Iforas mobile belt, and mantle delamination in Pan-African orogeny, 94–5
Aegean extension, controlled by Oligo-Miocene detachment, Greece, 243–6
aeolian bedforms, reviewed, 417–8
aeromagnetic image, of Tertiary dyke swarm, N Ireland, 37–8
Africa, E, present tectonic stress field and crustal deformation, 954–7
African plate, evolution of, and mantle convection in Pangaea break-up, 953–64
——, geotectonic model of, 959
ALDRIDGE, R.J., JEPPSSON, L. & DORNING, K.J., early Silurian oceanic episodes and events, 501–13, figs
alkali carbonate magmas, 639–41
alkaline rocks, and Pan-African orogenic model, 89–98
ALLEN, J.R.L., sedimentary structures: Sorby and the last decade [*Volume* 150 *Celebration Paper*], 417–25, figs
ALLEN M.B., *see* ZHANG, C.
Allt Choll Breccia Member, of Allt na Cuile Sandstone, Jurassic, NE Scotland, 329
Allt na Cuile, Lothbeg Point, NE Scotland, Helmsdale fault section at, 329–33
Allt na Cuile Sand Member, of Allt na Cuile Sandstone, Jurassic, NE Scotland, 329–3
alluvial suites, palaeosols in, ORS, S Wales, 1109–20
ALSOP, G.I. & HUTTON, D.H.W., Caledonian extension in the north Irish Dalradian: implications for the timing and activity of gravity collapse [Special], 33–6, figs
Amaro province, Ethiopia, stratigraphy of, 102–3
America, N, Silurian magnetic polarity in, 827
Anchorage Formation, of Mesozoic Byers Group, Antarctica, 1079–81
anatexis, and dacite origin, Erlend complex, Tertiary, NE Atlantic, 912–13
Andalshatten pluton, W Norway, and age of Bindal batholith, 772–4
andesite lavas, welded breccias in, 897–902
ANDREWS, J.E., *see* Wright, V.P.
Anglesey, N Wales, concealed granite below, 83–7
anorogenic magmatism, Proterozoic, and orogenic connections, 39–50
anoxia, response of marine benthos to, 188
Antarctica, Byers Group, Mesozoic, stratigraphy and regional significance of, 1075–87
——, Late Proterozoic to Early Palaeozoic tectonism, Dronning Maud Land, 833–42
—— Neoproterozoic active margin in Transantarctic Mountains, 67–82
apatite fission track data, and Mesozoic cover, N England, 657–60
Appalachians, USA, Silurian magnetic polarity in, 826
Arabian–Nubian Shield, Nakasib suture of, Sudan, 1065–74
——, ophiolites of, 1072–3
——, and Uniformitarianism, 8
Arbaat volcanic group, evidence for a late Precambrian Wilson cycle, Sudan, 394–8
arc, oceanic, Early Cretaceous, Myanmar (Burma), emplacement of, 1091–2
Archaean plate tectonics, 12–15
Archaean provinces, early Proterozoic anorogenic magmatism in, 45
Archaean–Proterozoic mafic suites, reviewed, 627–9
Argive region, Greece, Quaternary tectonics of, 529–39
ARONSON, J.L, *see* EBINGER, C.J.
Assam–Burma region, Mesozoic–Cenozoic tectonism of, 1089–1102
assimilation of wall rock, in magmatic differentiation, 619
ATES. A. & KEAREY, P., deep structure of the East Mendip Hills from gravity, aeromagnetic and seismic reflection data, 1055–63, figs
—— & ——, structure of Blackdown pericline, Mendip Hills, from gravity and seismic data, 729–36, figs
ATHERTON, M.P., granite magmatism [*Volume* 150 *Celebration Paper*], 1009–23, figs
Atlantic, NE, Palaeogene magmatism and continental break-up, in Erland complex, Faeroe–Shetland Basin, 903–14
——, S, opening and mantle plumes, 987–8
Australia, Capital Territory, Silurian magnetic polarity in, 825–6
——, W, and India, L Palaeozoic deformation in, significance for Gondwanaland, 811–14
Avalonia, position of, and 'Celtic' brachiopod fauna of, 1040–1
Avon Gorge, Bristol, Vaughan's zonation of Dinantian in, 427–9
BAILEY, D.K., carbonate magmas [*Volume* 150 *Celebration Paper*], 637–51, figs
Baltica–Gondwana, Caledonian suture zone between, SW Poland, 355–69
Barrow, George, and causes of regional metamorphism, 227–41
Barrow Hill Igneous Complex, Carboniferous, and Etruria formation palaeoenvironment 746–7
BARTON, J.M., *see* MOYES, A.B.
basalt genesis, continental, Miocene, Colorado, 277–92
basalt volcanism, and faulting, Ethiopian rift, 99–108
basalts, accreted, Mino terrane, C Japan, nature, tectonic setting, 1167–81
——, dacites, of Erlend complex, NE Atlantic, Tertiary volcanism and continental breakup, 906–10
——, oceanic and continental, geochemical signatures and mantle dynamics, 977–90
——, Tertiary, N Ireland, geochemistry and volcanology, 109–20
——, ——, Mull, Scotland, melt input to, 763–9
basin analysis, shell beds used in, Jurassic, W India, 169–85
basin development, and structural evolution, Cheshire Basin, 864–8
basin inversion, mechanism for, 319–21
——, in S Britain, 311–22
basins, extensional, transfer zones in, 1137–52
BASSETT, M.G. & COPE, J.C.W., on new seismic evidence for a major geological boundary at shallow depth, N Devon [discussion of: BROOKS, *et al.*], 1197–9
batholith, buried, N Sea, and origin of Sole Pit Basin, 255–8
Beacon Hill pericline, E Mendips, deep structure of, 1055–63
bedforms, tidal, storm, etc., reviewed, 419–21

bedload transport, in English Channel, numerical models, 683–95
BEESON, J., *see* HARRIS, L.B.
BELL, B.R. & PANKHURST, R.J., Sr-isotope variations in a composite sill: crystal-liquid processes and the origin of the Skye granites, 121–4, figs
benthos, fossil, assemblages controlled by oxygen and substrate, 193–6
——, marine, response of, to oxygen fluctuations, 187–91
Beryl Basin, N North Sea, controls of sedimentation in Triassic of (discussion), 796–8
BESTLAND, E.A. & RETALLACK, G.J., volcanically influenced calcareous palaeosols from the Miocene Kiahera Formation, Rusinga Island, Kenya, 293–310, figs
Betic Cordillera, SE Spain, proximal deposits at fault-controlled basin margin, 719–27
BICKFORD, M.E., *see* NORDGULEN, Ø.
Bindal Batholith, Norway, U-Pb ages, and tectonic history of Scandinavian Caledonides, 771–83
biostratigraphic data, durability of, 213–15
biostratigraphical correlation, multivariate techniques for, 697–705
biostratigraphy, and Charles Lapworth, 209–18
——, and chronostratigraphy, of Dinantian, Britain, 427–46
——, divorced from lithostratigraphy, 215–17
——, versus chemostratigraphy, Cenomanian–Turonian boundary, 29–32
bioturbation, and ichnofabric, 137–8, 141–8
——, index of, 142–4
BIRD, R.T., *see* SEARLE, R.C.
BLACK, R. & LIEGEOIS, J.-P., cratons, mobile belts, alkaline rocks and continental lithospheric mantle: the Pan-African testimony, 89–98, figs
Black Isle, and Easter Ross, Scotland, structural geology of, 515–27
Blackdown pericline, Mendip Hills, upper crustal structure of, 792–36
Bokoya massif, Rif arc, Morocco, palaeomagnetic rotation of, 714
bone beds, influence of subsidence on distribution, 165–7
BOSENCE, D.W.J., *see* DART, C.J.
BOSWORTH, W. & MAURIN, A., structure, geochronology and tectonic significance of the northern Suguta Valley (Gregory Rift), Kenya, 751–62, figs
BOTT, M.H.P., modelling the plate-driving mechanism, 941–51, figs
boulder beds, Scotland, clast fracture patterns in, 251–4
BOULTER, M.C. & MANUM, S.B., further comments on a geological map of the southern Deccan Traps, India and its structural implications [discussion of: KALE, *et al.*, MITCHELL & WIDDOWSON], 791–5, figs
BOXALL, S.R., *see* GROCHOWSKI, N.T.L.
brachiopod province, 'Celtic', of Ordovician, reassessed, 1039–42
BREMOND D'ARS, J. DE, *et al.*, on petrology of a magma chamber: the Plutonic Complex of Guernsey (Channel Islands, UK) [reply to discussion], 788–90
BRIGGS, D.E.G., KEAR, A.J., MARTILL, D.M. & WILBY, P.R., phosphatization of soft-tissue in experiments and fossils [Special], 1035–8, fig
Bristol Channel, shallow depth major geological boundary under, 131–5
Bristol Channel area, Mesozoic vertebrate fissure faunas in, 1025–34
Britain, Dinantian biostratigraphy and chronostratigraphy in, 427–46
——, geochemical variations correlated with borehole geophysical logs, Mercia Mudstone, 67–75
——, S, basin inversion in, 311–22
——, ——, post-Caledonian tectonic history from Maryport fault, 247–50
British Tertiary Igneous Province, current research in, 1193–4
——, and Mull basalts, 763–6
BRODIE, J.A., *see* UNDERHILL, J.R.
BROMLEY, A.V., *see* CHEN, Y.
Bronson Hill Arc, Laurentia, 'Celtic' brachiopod fauna of, 1039–40
BROOKS, M., HILLIER, B.V. & MILIORIZOS, M., new seismic evidence for a major geological boundary at shallow depth, N Devon, 131–5, figs
—— & MILIORIZOS, M., on new seismic evidence for a major geological boundary at shallow depth, N Devon [reply to discussion], 1197–9
BROWN, M., *P-T-t* evolution of orogenic belts and the causes of regional metamorphism [*Volume* 150 *Celebration Paper*], 227–41, figs
BRUN, J.P., *see* SOKOUTIS, D.
BUCK, S.G., *see* POLLARD, J.E.
Budleigh Salterton Pebble Bed, and Palaeozoic palaeogeography of Europe, 219–26
Byers Group, Mesozoic, Antarctica, stratigraphy and regional significance of, 1075–87
Calatrava, C. Iberia, Cenozoic magmatism related to extensional tectonics, 915–22
calcio-carbonatites, 641–4
calcretes, super-mature, Upper Old Red Sandstone, Scotland, 871–83
caldera collapse, incremental, Suswa volcano, Gregory Rift Valley, Kenya, 885–96
Caledonian evolution, of Laurentian margin, W Ireland, 669–72
Caledonian extension, and timing of gravity collapse, Irish Dalradian, 33–6
Caledonian ophiolite, Solund, W Norway, dating and provenance of turbiditic cover, 673–6
Caledonian suture zone, SW Poland, U-Pb ages from, 355–69
Caledonian tectonothermal evolution, Scandinavian Caledonides, from U-Pb zircon dates, 51–6
Caledonides, NE Greenland, age and tectonothermal record of Laurentian basement, 371–9
——, Scandinavian, tectonothermal evolution in outboard terranes, 51–6
carbonate magmas, reviewed, 637–51
Carboniferous, L, biostratigraphy and chronostratigraphy of, Britain, 427–46
——, U, palaeoenvironments and volcanicity on margins of Pennine Basin, 737–50
Carboniferous volcanicity, S Staffordshire, in Etruria Formation, 737–50
CEBRIÁ, J.M., *see* LOPEZ-RUIZ, J.
'Celtic' brachiopod province, of Ordovician, reassessed, 1039–42
Cenomanian–Turonian boundary, chemostratigraphy versus biostratigraphy around, 29–32
Cenozoic alkaline volcanism, related to extensional tectonics, C Iberia, 915–22
Cenozoic volcanism, and faulting, in main Ethiopian rift, 99–108
CHADWICK, R.A., aspects of basin inversion in southern Britain, 311–22, figs
——, EVANS, D.J. & HOLLIDAY, D.W., the Maryport fault: the post-Caledonian tectonic history of southern Britain in microcosm [Special], 247–50, figs
—— *see* EVANS, D.J.
Chalk, Tertiary erosion of, E Midland Shelf, 1047–50
CHARNLEY, N.R., *see* MYERS, J.S.
chemostratigraphy, versus biostratigraphy, Cenomanian–Turonian boundary, 29–32
CHEN, Y., CLARK, A.H., FARRAR, E., WASTENEYS, H.A.H.P., HODGSON, M.J. & BROMLEY, A.V., diachronous and independent histories of plutonism and mineralization in the Cornubian Batholith, southwest England, 1183–91, figs
Cheshire Basin, Permian to Jurassic stratigraphy and structural evolution, 857–70
Chester Cone Formation, of Mesozoic Byers Group, Antarctica, 1083–4

Chilas–Jifal metamorphic complex, Kohistan, and Asian collision, 843–56
Chile, welded breccias in andesites, Lascar Volcano, 898–902
China, S, Silurian magnetic polarity in, 826–7
choristodere (diapsida), and fossil record of Triassic semi-aquatic reptiles, 1103–8
CLAESSON, S., *see* STEPHENS, M.B.
CLARK, A.H., *see* CHEN, Y.
CLAYTON, C.J., deflection versus reflection of sediment gravity flows in the late Llandovery Rhuddnant Grits turbidite system, Welsh Basin [Special], 819–22, figs
Clew Bay Complex, Ireland, and Laurentian margin, 670–1
CLIPSTONE, D. & ROYCROFT, P., on detrital magmatic muscovite from the Lower Carboniferous of southwest Ireland: buried granites uncovered? [reply to discussion], 415–6
Coal Measures, S Wales, depositional model, 1121–36
COCKS, L.R.M., Triassic pebbles, derived fossils and the Ordovician to Devonian palaeogeography of Europe [*Volume 150 Celebration Paper*], 219–26, figs
—— & MCKERROW, W.S., a reassessment of the early Ordovician 'Celtic' brachiopod province [Special], 1039–42
COLLINS, M.B., *see* GROCHOWSKI, N.T.L.
——, *see* MCLAREN, P.
collision pull, and plate movement, 948–9
COLMAN, T.B., *see* FLETCHER, C.J.N.
Colorado, Miocene basaltic magmatism, and continental basalt genesis, 277–92
concretion growth, in Jurassic Valtos Sandstone, Skye, 61–2
concretions, as geochemical indicators of palaeohydrology, Valtos Sandstone, Skye, 57–66
conglomerates, angular, at basin margin, Betic Cordillera, SE Spain, 722–4
continental basalt genesis, Miocene, Colorado, 277–92
COPE, J.C.W., *see* BASSETT, M.G.
CORFIELD, R.M., *see* GALE, A.S.
CORFU, F., *see* OLIVER, J.H.
CORNWELL, J.D. & SMITH, I.F., a possible concealed granite beneath part of Anglesey, North Wales, 83–7, figs
Cornubian Batholith, SW England, diachronous and independent histories of plutonism and mineralization, 1183–91
CRAME, J.A., PIRRIE, D., CRAMPTON, J.S. & DUANE, A.M., stratigraphy and regional significance of the Upper Jurassic–Lower Cretaceous Byers Group, Livingston Island, Antarctica, 1075–87, figs
CRAMPTON, J.S., *see* CRAME, J.A.
cratons, mobile belts, continental lithospheric mantle, and Pan-African orogeny, 89–98
CRAWFORD, M.B., *see* PETTERSON, M.G.
Cretaceous arc magmatism, Burma, 1092–4
Cretaceous environments, 413–4
Cretaceous–Cenozoic tectonism, of Burma–Assam region, 1089–1102
Cretaceous–Palaeogene, Burma, 1094–7
crustal accretion, in Precambrian, 625–6
crustal development, Precambrian, and mafic magmatism, 625–35
Cumbria, N England, seismic reflections within Lake District batholith of, 1043–6
Cyprus, SW, strike-slip and transpressional tectonics, Mamonia Complex, 381–92
$\delta^{13}C$ profile, from Cenomanian–Turonian boundary, 29–32
D'LEMOS, R.S., on petrology of a magma chamber: the Plutonic Complex of Guernsey (Channel Islands, UK) [discussion of : BREMOND D'ARS, *et al.*], 788–90
DALLMEYER, R.D. & TUCKER, R.D., on a U-Pb zircon age for the Lagoa augen gneiss, Morais complex, Portugal: tectonic implications [reply to discussion], 409–10
—— & TUCKER, R.D., U-Pb zircon age for the Lagoa augen gneiss, Morais complex, Portugal: tectonic implications, 405–10, figs
——, *see* TUCKER, R.D.
Dalradian, Irish, Caledonian extension and gravity collapse, 33–6
Dalradian Supergroup, geochronology of, reviewed, 456–61
DART, C.J., BOSENCE, D.W.J. & MCCLAY, K.R., stratigraphy and structure of the Maltese graben system, 1153–66, figs
DAY, S.J., the structural evolution and mechanics of volcanoes and subvolcanic intrusions [conference report], 207–8
Deccan Traps, India, geological map and its structural implications (discussion),791–5
desiccation fractures, reviewed, 421
deviatoric tensional stresses, and plate-moving mechanisms, 934–5
Devil's Point Formation, of Mesozoic Byers Group, Antarctica, 1081–2
Devon, N, seismic evidence for major geological boundary, 131–5
——, ——, seismic evidence for major geological boundary (discussion),1197–99
dewatering structures, reviewed, 421–2
diagenesis, of calcretes, Upper ORS, Scotland, 871–83
diamictites (?tillites), fracture patterns in clasts of, 251–4
Diapsida, Triassic, and fossil record of semi-aquatic reptiles, 1103–8
DICKIN, A.P., *see* Thompson, R.N.
differentiation magmatic, 611–24
Dinantian biostratigraphy, and chronostratigraphy, Britain, 427–46
Dinantian eustasy, 429–30
Dinantian seismic sequence stratigraphy, 431–2
diversity gradients, oxygen controlled, 193
——, substrate controlled, 193–4
DOBLAS, M., *see* Lopez-Ruiz, J.
DOGLIONI, C., geological evidence for a global tectonic polarity, 991–1002, figs
DONATO, J.A., a buried granite batholith and the origin of the Sole Pit Basin, UK Southern North Sea [Special], 255–8, figs
DORNING, K.J., *see* Aldridge, R.J.
drainage development, and stratigraphy in transfer zones of extensional basins, 1137–52
Dromore gravity high, linked to Tertiary dyke swarm, N Ireland, 37–8
Dronning Louise Land, NE Greenland, age, tectonothermal record of, Laurentian basement, 371–9
Dronning Maud Land, Antarctica, Late Proterozoic to Early Palaeozoic tectonism and supercontinental fragmentation, 833–42
DUANE, A.M., *see* CRAME, J.A.
DUEBENDORFER, E.M., *see* ROWELL, A.J.
DUNNING, G.R., *see* PEDERSEN, R.B.
Dyfed, S Wales, Palaeosols in ORS floodplain deposits, 1112–17
dyke swarm, Tertiary, N Ireland, from aeromagnetic imagery, 37–8
East Midlands Shelf, UK, Tertiary erosion magnitudes in, 1047–50
East Pacific Rise, development of oceanic microplates in, 965–76
Easter and Juan Fernandez microplates, development of, E Pacific Rise, 965–76
Eathie Haven, NE Scotland, Helmsdale fault section at, 324–9
EATON, G.P., *see* WILLIAMS, G.D.
EBINGER, C.J., YEMANE, T., WOLDEGABRIEL, G., ARONSON, J.L. & WALTER, R.C., Late Eocene–Recent volcanism and faulting in the southern main Ethiopian rift, 99–108, figs
ÉKES, C., bedload-transported pedogenic mud aggregates in the Lower Old Red Sandstone in southwest Wales [Special], 469–71, figs
Eldivan, Turkey, alkalic basalts in Ankara melange of, 545–7
England, N, Mesozoic cover from fission track data, 657–60
——, ——, seismic reflections within Lake District batholith of, 1043–6
——, SW, plutonism and magmatism in Cornubian Batholith, 1183–91
English Channel, sediment transport using numerical models, 683–95

Enkorika Formation, Kenya, and caldera collapse at Suswa volcano, 891–2
Entarakua Formation, Kenya, and caldera collapse at Suswa volcano, 892
environmental oxygen fluctuations, and response of marine benthos, 187–91
Eocene, to Recent volcanism, Ethiopian rift, 99–108
Erlend Complex, Faeroe–Shetland Basin, Palaeogene magmatism and continental break-up, 903–14
erosion, magnitude of, Tertiary, E Midlands Shelf, UK, 1047–50
Esinoni Formation, Kenya, and caldera collapse at Suswa volcano, 891
Ethiopia, Cenozoic volcanism and faulting in rift, 99–108
Etruria Formation, palaeoenvironments and volcanicity on S margins of Pennine Basin, C England, 737–50
Eululu Formation, Kenya, and caldera collapse at Suswa volcano, 893
Europe, Palaeozoic palaeogeography from Triassic pebble fossils, 219–26
——, SW, correlation of Tertiary biochronological and marine magnetic anomaly sequences, 661–4
eustasy, Dinantian, 429–30
eustatic sea level changes, and growth of Silurian stromatoporoid reefs, Gotland, 202
EVANS, D.J., REES, J.G. & HOLLOWAY, S., the Permian to Jurassic stratigraphy and structural evolution of the central Cheshire Basin, 857–70, figs
——, ROWLEY, W.J., CHADWICK, R.A. & MILLWARD, D., seismic reflections from within the Lake District batholith, Cumbria, northern England [special], 1043–66, figs
——, *see* CHADWICK, R.A.
Extensional basin, Maltese graben system, 1153–66
extensional basins, transfer zones in, and their influence on drainage, stratigraphy, 1137–52
extensional collapse, N Irish Caledonides, 33–6
extensional tectonics, related to intra-plate volcanism, Cenozoic, Spain, 915–22
facies interpretation, significance of Ophiomorpha ichnofabrics in, 149–64
Faeroe–Shetland Basin, Palaeogene magmatism and continental breakup in Erlend Complex of, 903–14
FARRAR, E., *see* CHEN, Y.
fault scarp, Jurassic, NE Scotland, palaeoecology and sedimentology across, 323–40
Fermanagh, N Ireland, Tertiary dyke swarm in, 37–8
Fermor Lecture, 1991, Windley, B.F., Proterozoic anorogenic magmatism and its orogenic connections, 39–50
fission track counts, correction for tracks lost during etching, 1051–4
fission track data, and Mesozoic cover, N England, 657–60
fissure faunas, vertebrate, in Mesozoic, Bristol Channel area, 1025–34
FLETCHER, C.J.N., SWAINBANK, I.G. & COLMAN, T.B., metallogenic evolution in Wales: constraints from lead isotope modelling, 77–82, figs
FLINN, D., on the location and history of the Walls Boundary fault and Moine thrust north and south of Shetland [reply to discussion], 1003–8 figs
floodplains, ORS, S Wales, palaeosol development on, 1109–20
FLOYD, P.A., geochemical discrimination and petrogenesis of alkalic basalt sequences in part of the Ankara melange, central Turkey, 541–50, figs
FORTEY, R.A., Charles Lapworth and the biostratigraphic paradigm [*Volume* 150 *Celebration Paper*], 209–18, figs
fossilization, by phosphatization of soft-tissues, 1035–8
fractional crystallization, in Giant's Causeway basalt, N Ireland, 116
fracture patterns, in clasts of diamictites, 251–4
FROSTICK, L.E, *et al.*, on tectonic and climatic control of Triassic sedimentation in the Beryl Basin, northern North Sea [reply to discussion], 796–8
Funabuseyama Mountain region, C Japan, Mino terrane accreted basalts in, 1169
FÜRSICH, F.T. & OSCHMANN, W., shell beds as tools in basin analysis: the Jurassic of Kachchh, western India, 169–85, figs
GALE, A.S., JENKYNS, H.C., KENNEDY, W.J. & CORFIELD, R.M., chemostratigraphy versus biostratigraphy: data from around the Cenomanian–Turonian boundary [Special], 29–32, figs
GAO, S., *see* MCLAREN, P.
GARDEWEG, M., *see* SPARKS, R.S.J.
GAWTHORPE, R.L. & HURST, J.M., transfer zones in extensional basins: their structural style and influence on drainage development and stratigraphy, 1137–52, figs
geochemical signatures, of oceanic and continental basalts, 977–90
geochemical variations, correlated with borehole geophysical logs, Mercia Mudstone, 67–75
geochemistry, of accreted basalts, Mino terrane, Jurassic, Japan, 1172–7
——, of Arbaat volcanic group, Sudan, and late Precambrian Wilson Cycle, 397
——, of basalts, dacites, Erlend complex, Tertiary, NE Atlantic, 907–10
——, ——, leucitites, Calatrava, Volcanic Province, Tertiary, C Iberia, 918–19
——, ——, Tertiary, Mull, 765–6
——, of concretions, Jurassic, Skye, and palaeo-hydrology, 57–66
——, of effusive carbonatites, 638–46
——, of extension-related continental basalts, Miocene, Colorado, 280–4
——, of granites, 1015–18
——, of Kap Gustav–Holm gabbros, Tertiary, Greenland, 265–6
——, of Kohistan batholith, N Pakistan, Nd isotope data, 125–9
——, of ophiolites, Western Junggar, NW China, 555–7
——, of Permian oceanic volcanism, Mino terrane, Japan, 1177–9
——, Sr, of Rubh'an Eireannaich sill, and origin of Skye granites, 121–4
——, stable isotope, of calcretes, U ORS, Scotland, 878–80
——. and volcanology of Tertiary basalts, N Ireland, 109–20
geochronology, of Cornubian batholith, 1185–7
——, Grunehogna Province, Antarctica, 835
——, Maudheim Province, Antarctica, 835–6
——, of Scottish metamorphic complexes, 447–64
Geological Society's *Journal*, historical origins of, 3–6
geophysical borehole logs, correlated with geochemical variations, Mercia Mudstone, U.K. 67–75
geophysics, aeromagnetically imaged Tertiary dyke swarm, N Ireland, 37–8
Giant's Causeway, geochemistry of Tertiary basalts, N Ireland, 109–20
GIBSON, P.J. & LYLE, P., evidence for a major Tertiary dyke swarm in County Fermanagh, Northern Ireland, on digitally processed aeromagnetic imagery [Special], 37–8, figs
GIBSON, S.A., *see* THOMPSON, R.N.
GILL, R.C.O., *see* MYERS, J.S.
Glenrothes borehole, E Scotland, calcrete profile in, 872–3
global stratigraphy, in Early Palaeozoic, 21–8
GLOVER, B.W., POWELL, J.H. & WATERS, C.N., Etruria Formation (Westphalian C) palaeoenvironments and volcanicity on the southern margins of the Pennine Basin, South Staffordshire, England, 737–50, figs
GOLDRING, R. & POLLARD, J.E., organisms and sediments: relationships and applications Lyell Meeting: [Introduction], 137–9
——, *see* POLLARD, J.E.
——, see, TAYLOR, A.M.

Gondwana, Laurentia, Ordovician brachiopod faunas of, 1039–42
Gondwanaland, significance for, in L Palaeozoic deformation of C India and SW Western Australia, 811–14
Gotland, Sweden, sedimentation control on stromatoporoid reef growth, 197–205
GOWER, D.J., *see* STORRS, G.W.
Gowganda Formation, Ontario, diamictites, clast fracture patterns in, 251
graben, and fault geometries, in Maltese graben, 1160–2
graben system, Maltese, stratigraphy and structure, 1153–66
granite, concealed, beneath Anglesey, N Wales, 83–7
——, magmatism of, 1009–23
granite batholith, buried, N Sea, and origin of Sole Pit Basin, 255–8
granite genesis, Skye, and Sr-isotope variations in composite sill, 121–4
'Granite' Problem, 1009–10
granites, buried, L Carboniferous, SW Ireland, (discussion), 415–6
granitoids, Kohistan, N Pakistan, Nd isotope data and batholith origins, 125–9
granulites, P-T-time paths of, Kohistan, W Himalayas, 843–56
graptolites, Lapworth and biostratigraphic calibration, 209–11
gravity anomalies, and crustal thinning, Africa, 957–8
gravity collapse, timing of, and Caledonian extension, Irish Dalradian, 33–6
gravity model, of Blackdown pericline, Mendip hills, 729–36
Great Estuarine Group, geochemistry of concretions in Valtos Sandstone of, 57–66
Greece, Aegean extension controlled by Oligo-Miocene detachment, 243–6
——, Tertiary detachment controlling Aegean extension, Rhodope Massif, 243–6
Gregory Rift, Kenya, incremental caldera collapse of Suswa volcano, 885–96
Greenland, Kap Gustav Holm Tertiary plutonic centre, 259–76
—— NE, age and tectonothermal record of Laurentian basement, 371–9
Gregory Rift, Kenya, structure, geochronology, tectonic significance of Suguta Valley of, 751–62
GROCHOWSKI, N.T.L., COLLINS, M.B., BOXALL, S.R. & SALOMON, J.C., sediment transport predictions for the English Channel, using numerical models, 683–95, figs
GROENEWALD, P.B., *see* MOYES, A.B.
Guernsey Plutonic Complex, magma chamber petrology (discussion),788–90
H_2S, and adaptive response of marine benthos, 187–91
HALL, R.P. & HUGHES, D.J., early Precambrian crustal development: changing styles of mafic magmatism [*Volume* 150 *Celebration Paper*], 625–35, figs
HALL, S., *see* HIBBARD, J.
HARKER, R.I., fracture patterns in clasts of diamictites (?tillites) [Special], 251–4, fig.
Harker diagrams, and other variation diagrams reviewed, 620–2
HARRIS, D.H.M., the Caledonian evolution of the Laurentian margin in western Ireland [Special], 669–72, fig.
HARRIS, L.B. & BEESON, J. Gondwanaland significance of Lower Palaeozoic deformation in central India and SW Western Australia [Special], 811–14, figs
HARTLEY, A.J., a depositional model for the Mid-Westphalian A to late Westphalian B coal Measures of South Wales, 1121–36, figs
HARVEY, P.K., *see* WHATELEY, M.K.G.
HATHWAY, B., the Nadi Basin: Neogene strike-slip faulting and sedimentation in a fragmented arc, western Viti Levu, Fiji, 563–81, figs
Helgeland Nappe Complex, Norway, tectonic history from age of Bindal Batholith, 771–83
HELLER, F., *see* LIU, X.
Helmsdale Boulder Beds, and Helmsdale fault, Jurassic, NE Scotland, 333–9
Helmsdale fault, palaeoecology and sedimentology across, 323–40
Helsby Sandstone Formation, Triassic, and structural evolution of Cheshire Basin, 836–4
HENDRY, G.L., *see* THOMPSON, R.N.
HIBBARD, J. & HALL, S. Early Acadian sinistral shear in north-central Maine, USA [Special], 815–8, figs
HILLIS, R.R., Tertiary erosion magnitudes in the East Midlands Shelf, onshore UK [Special], 1047–50, figs
Himalayas, W, P-T-time paths in Kohistan granulites, 843–56
HITCHIN, K., *see* RITCHIE, J.D.
HODGSON, M.J., *see* CHEN, Y.
Högklint, and Kopparsvik stromatoporoid reefs, Silurian, Gotland, sedimentation and growth, 199–200
HOLLIDAY, D.W., Mesozoic cover over northern England: interpretation of apatite fission track data [Special], 657–60
——, *see* CHADWICK, R.A.
HOLLOWAY, S., *see* EVANS, D.J.
holopelagic bivalves, *Bositra* as example, and anoxia, 188–90
Holyhead Bay, N Wales, concealed granite beneath, 83–7
HORSFALL, J.A.C., *see* MILLER, J.A.
hot spot ridge push, 946
hot spots, and tectonic stress, 942–4
HOYOS, M., *see* LOPEZ-RUIZ, J.
HUANG, X., *see* ZHANG, C.
HUGHES, D.J., *see* HALL, R.P.
HURST, J.M., *see* GAWTHORPE, R.L.
HUTTON, D.H.W., *see* ALSOP, G.I.
ichnofabric, and bioturbation, description and analysis, 141–8
ichnofabric analysis, 150–7
ichnofabric constituent diagram, 144–6
ichnofabrics, containing *Ophiomorpha*, significance in shallow-water facies interpretation, 149–64
Idhra Channel, and S Argolid peninsula, Greece, Quaternary tectonics of, 535–6
India, W, shell beds used in basin analysis, 169–85
——, Western Australia, L Palaeozoic deformation in, significance for Gondwanaland, 811–14
India–Asia collision, and Palaeogene ophiolite emplacement, Burma, 1097–8
intrabasin transfer zones, 1145–50
——, antithetic and synthetic, 1139–45
intrusions, subvolcanic, mechanics and structural evolution, 207–8
inversion structures, geometry of, Wessex Basin, 314–19
Ireland, Dalradian, Caledonian extension and gravity collapse in, 33–6
——, N, geochemistry of Tertiary basalts, 109–20
——, ——, Tertiary dyke swarm located by aeromagnetic imagery, 37–8
——, W, Caledonian evolution of Laurentian margin, 669–72
——, ——, Silurian magnetic polarity in, 825
Ireviken P-S event, early Silurian, Norway, 509–11
isotope profile, $\delta^{13}C$, Cenomanian–Turonian boundary, 29–32
Japan, C, nature and tectonic setting of basalts, Mino terrane, 1167–81
JENKYNS, H.C., *see* GALE, A.S.
JEPPSSON, L., *see* ALDRIDGE, R.J.
JONES, G., SANO, H. & VALSAMI-JONES, E., nature and tectonic setting of accreted basalts from the Mino terrane, central Japan, 1167–81, figs
Jong Primo episode, early Silurian, Norway, 505
Jurassic, NE Scotland, palaeoecology and sedimentology across fault scarp, 323–40
——, W India, shell beds used in basin analysis, 169–185
Jurassic–Cretaceous, Antarctica, Byers Group of, 1075–87

K-Ar, and $^{40}Ar/^{39}Ar$ geochronology, of Ethiopian rift volcanism, 102–3
K-Ar age determinations, Cenozoic, Suguta Valley, Kenya, 754–5
Kachchh, W India, basin analysis in Jurassic, 169–85
Kaczawa terrane, SW Poland, in Caledonian suture zone, 361
KALE, V.S., *et al.*, further comments on a geological map of the southern Deccan Traps, India and its structural implications [reply to discussion], 791–5, figs
Kamila amphibolites, Kohistan, and India–Asia collision, 854–5
KANARIS-SOTIRIOU, R., MORTON, A.C. & TAYLOR, P.N., Palaeogene peraluminous magmatism, crustal melting and continental breakup: the Erlend complex, Faeroe-Shetland Basin, NE Atlantic, 903–14, figs
Kap Gustav Holm, Greenland, Tertiary plutonic centre, 259–76
KEAR, A.J., *see* BRIGGS, D.E.G.
KEAREY, P., *see* ATES, A.
KENNEDY, M.J. & MENUGE, J.F., on the Inishkea Division of northwest Mayo: Dalradian cover rather than pre-Caledonian basement (Ireland) [reply to discussion], 605–7
KENNEDY, W.J., *see* GALE, A.S.
Kenya, Gregory Rift, incremental caldera collapse of Suswa volcano, 885–96
——, Suguta Valley (Gregory Rift), structure, geochronology, tectonic significance, 751–62
——, volcanically influenced palaeosols, Miocene, Rusinga Island, 293–310
KERR, A.C., current research in the British Tertiary Igneous Province [conference report], 1193–4
——, elemental evidence for an enriched small-fraction-melt input into Tertiary Mull basalts, Western Scotland, 763–9, figs
KERSHAW, S., sedimentation control on growth of stromatoporoid reefs in the Silurian of Gotland, Sweden 197–205, figs
Ketilidian, early Proterozoic anorogenic magmatism in, 41–2
——, Uniformitarianism in, 9–10
Kiahera Formation, Miocene, Kenya, volcanically influenced palaeosols, 293–310
KIDWELL, S.M., influence of subsidence on the anatomy of marine siliciclastic sequences and on the distribution of shell and bone beds, 165–7, figs
Kiliclar, Turkey, alkalic basalts in Ankara melange of, 543–5
Kinnesswood Formation, C Scotland, morphology and significance of calcretes in, 871–83
Kintradwell, NE Scotland, Helmsdale fault section at, 328–9
Klodzko terrane, SW Poland, in Caledonian suture zone, 361
Kohistan, W Himalayas, metamorphic P-T-time paths in granulites, 843–56
Kohistan batholith, N Pakistan, mantle-sourced, from Nd isotope data, 125–9
Koroimavua Volcanic Group, Miocene, Viti Levu, Fiji, 572–5
Korovuto Calcarenite Member, of Vatutu Sandstone, Miocene, Viti Levu, Fiji., 573–4
KOVACH, W.L., multivariate techniques for biostratigraphical correlation, 697–705, figs
Krôkfjellet pluton, W Norway, and age of Bindal batholith, 774
KROGH, T.E., *see* OLIVER, G.J.H.
KULLERUD, K., *see* STEPHENS, M.B.
Lagoa augen gneiss, Portugal, U-Pb zircon age and tectonic implications, 405–10
Lake District batholith, N England, seismic reflections within, 1043–6
Lapworth, and the biostratigraphic paradigm, 209–18
Lascar Volcano, Chile, andesites and welded breccias of, 898–902
LATIN, D., *see* WHITE, N.
Laurentian basement, age, tectonothermal record, Caledonides, NE Greenland, 371–9
Laurentian margin, W Ireland, Caledonian evolution of, 669–72
Laurentian Shield, Proterozoic anorogenic magmatism in, 39–50
LE BAS, M.J., Editorial, 1–2
lead isotope modelling, constraining metallogenic evolution in Wales, 77–82
LESLIE, A.B., SPIRO, B. & TUCKER, M.E., geochemical and mineralogical variations in the upper Mercia Mudstone Group (Late Triassic), southwest Britain: correlation of outcrop sequences with borehole geophysical logs, 67–75, figs
leucitites, and basalts of Tertiary Calatrava Volcanic Province, C Iberia, 915–22
LÉVÊQUE, F., correlating the Eocene–Oligocene mammalian biochronological scale from SW Europe with the marine magnetic anomaly sequence [Special], 661–4, fig
Lewisian, Scotland, geochronology of, reviewed, 448–53
LI, Z.X., *see* TRENCH, A.
Lidilidi Breccia, of Nadi Sedimentary Group, Miocene, Viti Levu, Fiji, 568–70
LIEGEOIS, J.-P., *see* BLACK, R.
limestones, structure and origin, studies based on Sorby's work, 801–9
liquid immiscibility, in magmatic differentiation, 619–20
lithosphere, westward drift of, and global tectonic polarity, 991–1002
lithospheric strength, and subsidence at N Sea 'triple junction', 483–4
LIU, T., *see* LIU, X.
LIU, X., SHAW, J., LIU, T. & HELLER, F., magnetic susceptibility of the Chinese loess–palaeosol sequence: environmental change and pedogenesis, 583–88, figs
Livingston Island, Antarctica, stratigraphy of Byers Group (Mesozoic) of, 1075–87
Llandovery, Welsh Basin, deflection versus reflection in turbidites, 819–22
LONERGAN, L. & SCHREIBER, B.C., proximal deposits at a fault-controlled basin margin, Upper Miocene, SE Spain, 719–27, figs
Lopez-Ruiz, J., Cebria, J.M., Doblas, M. Oyarzun, R., Hoyos, M. & Martin, C., Cenozoic intra-plate volcanism related to extensional tectonics at Calatrava, central Iberia, 915–22, figs
Loth Burn Siltstone Member, of Allt na Cuile Sandstone, Jurassic, NE Scotland, 331
Lothbeg Siltstone Member, of Allt na Cuile Sandstone, Jurassic, NE Scotland, 331–2
LYLE, P. & PRESTON, J., geochemistry and volcanology of the Tertiary basalts of the Giant's Causeway area, Northern Ireland, 109–20, figs
——, *see* GIBSON, P.J.
MCCLAY, K.R., *see* DART, C.J.
MCCRACKEN, S.R., *see* TRENCH, A.
MCGUIRE, W.J., volcanic plumbing systems [conference report], 411–12
MCKERROW, W.S., the development of Early Palaeozoic global stratigraphy [*Volume* 150 *Celebration Paper*], 21–8, figs
——, *see* COCKS L.R.M.
——, *see* TRENCH, A.
MCLAREN, P., COLLINS, M.B., GAO, S. & POWYS, R.I.L., sediment dynamics of the Severn Estuary and inner Bristol Channel, 589–603, figs
mafic magmatic suites, early Precambrian, reviewed, 626–9
mafic magmatism, and early Precambrian crustal development, 625–35
magmas, carbonate, 637–51
magmatic differentiation, 611–24
magmatism, anorogenic, and orogenic connections in Proterozoic, 39–50
——, of granite, 1009–23
——, mafic, and early Precambrian crustal development, 625–35

——, Palaeogene, and continental breakup, in Erlend complex, Faeroe–Shetland Basin, 903–14
magnesio-carbonatites, 645–6
magnetic anomaly sequence, Tertiary, SW Europe, correlated with mammalian biochronological sequence, 661–4
magnetostratigraphy, of Silurian, 823–31
Maine, USA, Acadian sinistral shear in, 815–18
Malmøykalven Secundo episode, early Silurian, Norway, 506–7
Maltese graben system, stratigraphy and structure, 1153–66
mammalian biochronological scale, Tertiary, SW Europe, correlated with marine magnetic anomaly sequence, 661–4
Mamonia Complex, SW Cyprus, strike-slip and transpressional tectonics in ancient ocean, 381–92
mantle, deep structure beneath African plate, 961
——, lithospheric, and Pan-African orogeny, 89–98
——, upper, convection in, 977–9
mantle convection, and Pangaea break-up, in African plate, 953–64
mantle dynamics, and geochemistry of oceanic and continental basalts, 977–90
mantle plumes, nature of source, 979–80
——, and plate movement, 924–5
MANUM, S.B., *see* BOULTER, M.C.
mantle, Kohistan, Pakistan, isotopic characteristics, 127–8
mantle delamination, in Pan-African orogeny, 89–98
MARRIOTT, S.B. & WRIGHT, V.P., palaeosols as indicators of geomorphic stability in two Old Red Sandstone alluvial suites, South Wales, 1109–20, figs
MARTILL, D.M., *see* BRIGGS, D.E.G.
MARTIN, C., *see* LOPEZ-RUIZ, J.
Maryport fault, tectonic history of, 249–50
MAURIN, A., *see* BOSWORTH, W.
Mawgyi nappe, Myanmar (Burma), and equivalents in Sumatra and Tibet, 1091–2
MAX, M.D. & WINCHESTER, J.A., on the Inishkea Division of northwest Mayo: Dalradian cover rather than pre-Caledonian basement (Ireland) [discussion of: KENNEDY & MENUGE], 605–7
Mendip Hills, deep structure from geophysical data, 10555–63
——, upper crustal structure of Blackdown pericline, 729–36
Mendips, E, Silurian magnetic polarity in, 825
MENUGE, J.F., *see* KENNEDY, M.J.
Mercia Mudstone, geochemical and mineralogical variations at outcrop correlated with borehole geophysical logs, 67–75
Meritri group, Sudan, and late Precambrian Wilson Cycle, 399–400
Mesozoic, Antarctica, Byers Group of, stratigraphy, regional significance, 1075–87
——, Bristol Channel, vertebrate fissure faunas in, 1025–34
Mesozoic cover, N England, from fission track data, 657–60
metallogenic evolution in Wales, constraints from lead isotope modelling, 77–82
metamorphic complexes, Scottish, geochronology of, 447–64
metamorphic textures, used to define *P-T-t* evolution of orogenic belts, 231–3
metamorphism, Ordovician, in Helgeland Nappe Complex, W Norway, 778–80
——, and P-T-time paths of Kohistan granulites, W Himalayas, 843–56
——, regional, and *P-T-t* evolution of orogenic belts, 227–41
micas, fission track counts in, correction method, 1051–4
microplate rotation and strike-slip tectonics, Mamonia Complex, SW Cyprus, 381–92
microplates, oceanic, development of, E Pacific Rise, 965–76
——, roller-bearing model of development, 966–7
Millimagassett Lake region, Maine, USA, Early Acadian sinistral shear in, 815–8
MILIORIZOS, M., *see* BROOKS, M.
MILLER, J.A., HORSFALL, J.A.C., PETFORD, N. & TIZARD, R.H., proposed methods for correcting external detector fission track counts for tracks lost during etching [Special], 1051–4, figs
MILLWARD, D., *see* EVANS, D.J.
Minches, NW Scotland, strike-slip motion in, 653–6
Mineral Resource Evaluation, 1993 Conference, 1195–6
mineralization, of cellular details in fossils, 1035–6
——, and plutonism, in Cornubian Batholith, SW England, 1183–91
Mino terrane, C Japan, nature and tectonic setting of accreted basalts, 1167–81
Miocene, SE Spain, proximal deposits at fault-controlled basin margin, 719–27
Miocene basaltic magmatism, Colorado, and continental basalt genesis, 277–92
Miocene palaeosols, volcanically influenced, Kenya, 293–310
Miocene sedimentary basins, Viti Levu, Fiji, 564–7
Miocene–Quaternary, C Iberia, Calatrava Volcanic Province of, 915–22
MITCHELL, A.H.G., Cretaceous–Cenozoic tectonic events in the western Myanmar (Burma)–Assam region, 1089–1102, figs
MITCHELL, J.G., *see* THOMPSON, R.N.
Moinian Supergroup, geochronology of, reviewed, 453–4
monzonites, in Bindal batholith, W Norway, 775–6
Moor Cliffs Formation, late Silurian–early Devonian, S Wales, palaeosols in, 1112–16
Moore, Charles, and Mesozoic vertebrate fissure faunas, 1025–8
Morais complex, Portugal, U-Pb zircon age for Lagoa augen gneiss of, 405–10
Morocco, palaeomagnetic rotations in Rif Arc, 707–18
MORRISON, M.A., *see* THOMPSON, R.N.
MORTON, A.C., *see* KANARIS-SOTIRIOU, R.
MOYES, A.B., BARTON, J.M. & GROENEWALD, P.B., Late Proterozoic to Early Palaeozoic tectonism in Dronning Maud Land, Antarctica: supercontinental fragmentation and amalgamation, 833–42, figs
Mozambique Belt, Late Proterozoic, and Uniformitarianism, 8
Mull, Scotland, small-fraction melt input to Tertiary basalts, 763–9
multivariate techniques, for biostratigraphical correlation, 697–705
Murchison, Sedgwick, and development of Early Palaeozoic global stratigraphy, 21–8
Myanmar (Burma)–Assam region, Cretaceous–Cenozoic tectonism of, 1089–1102
MYERS, J.S., GILL, R.C.O., REX, D.C. & CHARNLEY, N.R., the Kap Gustav Holm Tertiary Plutonic Centre, East Greenland, 259–76, figs
NAAR, D.F., *see* SEARLE, R.C.
Nadi Sedimentary Group, Miocene, Viti Levu, Fiji, 568–72
Nakasib, suture, Sudan, evidence for a Precambrian Wilson Cycle, 393–404
Nakasib suture, Proterozoic, Sudan, structure of, 1065–74
Natawa Mudstone, of Nadi Sedimentary Group, Miocene, Viti Levu, Fiji, 570–2
NEEDHAM, D.T., the structure of the western part of the Southern Uplands of Scotland, 341–54, figs
neodymium isotope data, granitoids, Kohistan, N Pakistan, petrogenetic implications, 125–9
Neoproterozoic margin, active, Transantarctic Mountains, 677–82
Neoproterozoic supercontinent, 665–7
neotectonics, of Argolikos region, Greece, 536–8
——, current themes, future prospects, 785–7
NISSEN, A.L., *see* NORDGULEN, Ø.
NORDGULEN, Ø., BICKFORD, M.E., NISSEN, A.L. & WORTMAN, G.L., U-Pb zircon ages from the Bindal Batholith, and the tectonic history of the Helgeland Nappe Complex, Scandinavian Caledonides, 771–83, figs
noritic magmatism, late Archaean–early Proterozoic, reviewed, 629–31

North Sea. S. buried granite batholith and origin of Sole Pit Basin, 255–8
Northumberland–Solway basin, Maryport fault margin, tectonic history, 247–50
Norway, Bindal Batholith, U-Pb ages, and tectonic history of Scandinavian Caledonides, 771–83
——, S, Silurian magnetic polarity in, 826
——, W, dating of turbiditic cover to Solund–Stavfjord ophiolite, 673–6
numerical modelling, of sediment transport, English Channel, 683–95
Okumino Group, of Mino terrane, Permian seamount complex, 1169–71
Ol Doinyo Onyoke Formation, Kenya, and caldera collapse at Suswa volcano, 892
Old Red Sandstone, S Wales, palaeosols in, 1109–20
——, Scotland, significance of super-mature calcretes in, 871–83
Olgumi Formation, Kenya, and caldera collapse at Suswa volcano, 886–90
Oligo-Miocene detachment, S Rhodope, controlling Aegean extension, 243–6
OLIVER, G.J.H., CORFU, F. & KROGH, T.E., U-Pb ages from SW Poland: evidence for a Caledonian suture zone between Baltica and Gondwana, 355–69, figs
OLIVIER, P., *see* PLATZMAN, E.S.
Oloolwa Formation, Kenya, and caldera collapse at Suswa volcano, 890–1
oolitic grains, 803–4
ophiolites, Arabian–Nubian Shield, tectonic setting, 1072–3
——, and arc rocks, W Myanmar (Burma), 1089–1102
——, Nakasib, Sudan, 1071–2
Ophiomorpha ichnofabrics, and shallow-water facies interpretation, 149–64
Ordovician, 'Celtic' brachiopod province of, reassessed, 1039–42
Ordovician to Devonian palaeogeography of Europe, 219–26
organisms, and sediments, relationship, 137–9
Organisms and sediments [thematic set] and:
description and analysis of bioturbation and ichnofabric, 141–8
distinguishing between oxygen and substrate control in fossil assemblages, 193–6
environmental oxygen fluctuations and marine benthos, 187–91
ichnofabrics containing *Ophiomorpha*, 149–64
influence of subsidence on marine siliciclastics, shell and bone beds, 165–7
Introduction: Organisms and sediments, 137–9
sedimentation control on growth of stromatoporoid reefs, 197–205
shell beds as tools in basin analysis. Jurassic, India, 169–85
Orogenic belts, *P-T-t* evolution of, 227–41
OSCHMANN, W., environmental oxygen fluctuations and the adaptive response of marine benthic organisms, 187–91, figs
——, *see* FÜRSICH, F.T.
oxygen fluctuations, and marine benthic organisms, 187–91
oxygen isotopic study, of concretions, Valtos Sandstone, Jurassic, Skye, 63–4
oxygen and substrate, controlling fossil benthic assemblages, 193–6
OYARZUN, R., *see* LOPEZ-RUIZ, J.
P-T-t evolution of orogenic belts, 227–41
P-T-time paths, of Kohistan granulites, and tectonics of W Himalayas, 843–56
Pachystropheus rhaeticus, earliest possible choristodere (diapsida), 1103–8
Pakistan, N, neodymium isotope data and mantle source for Kohistan granitoids, 125–9
palaeoecology, sedimentology across fault scarp, Jurassic, NE Scotland, 323–40
palaeoenvironments and volcanicity on S margin of U Carboniferous Pennine Basin, C England, 737–50
Palaeogene geomagnetic reversals, 661–2
Palaeogene magmatism, and continental break-up, Faeroe-Shetland Basin, NE Atlantic, 903–14
palaeogeography, Palaeozoic, from derived fossils in Triassic pebbles, 219–26
——, Precambrian and early Palaeozoic reconstructions, 665–8
palaeogeomagnetic rotations, Rif Arc, Morocco, 707–18
palaeohydrology, concretions as geochemical indicators of, Valtos Sandstone, Skye, 57–66
palaeoreconstructions, implications for plate-moving mechanisms, 928–30
palaeosols, and geomorphic stability, ORS, S Wales, 1109–20
——, and palaeoenvironment, Etruria formation, Carboniferous, C England, 741–3
——, volcanically influenced, Miocene, Kenya, 293–310
Palaeozoic, Early, development of global stratigraphy in, 21–8
——, early and late Precambrian reconstructions, 665–8
——, L, deformation , in India and W Australia, 811–14
Pan-African orogeny, behaviour of cratons and mobile belts within, 89–98
——, cratons, mobile belts and plate tectonic model, 89–98
Pangaea break-up, and mantle convection, revealed by evolution of African plate, 953–64
PANKHURST, R.J., *see* BELL, B.R.
——, *see* ROGERS, G.
paper pectens, (Posidonia, etc.), and substrate controlled diversity gradients, 195
PAVIONI, N., pattern of mantle convection and Pangaea break-up, as revealed by the evolution of the African plate, 953–64, figs
PAVLIDES, S., *see* SOKOUTIS, D.
pebbles, Triassic, and Ordovician to Devonian palaeogeography of Europe, 219–26
PEDERSEN, R.B. & DUNNING, G.R., provenance of turbiditic cover to the Caledonian Solund-Stavfjord ophiolite from U-Pb single zircon dating [Special], 673–6, figs
Pennine Basin, England, palaeoenvironments and volcanicity on basin margin, U Carboniferous 737–50
Penokean, early Proterozoic anorogenic magmatism in, 42–3
PERISSORATIS, C., *see* VAN ANDEL, T.H.
Permian, and Jurassic, stratigraphy and structural evolution, Cheshire Basin, 857–90
Peru, Coastal Batholith of, 1018–19
PETFORD, N., *see* MILLER, J.A.
petroleum potential, of NE Wales, Liverpool Bay basin, 498–9
PETTERSON, M.G., CRAWFORD, M.B. & WINDLEY, B.F., petrogenetic implications of neodymium isotope data from the Kohistan batholith, North Pakistan, 125–9, figs
Phanerozoic, Uniformitarianism in, 7
phosphatization, of soft-tissue in fossils, 1035–8
phreatic zone, and calcrete cements, Upper ORS, Scotland, 876
PICKERING, K.T., *see* WIGNALL, P.B.
PIRRIE, D., *see* CRAME, J.A.
plate tectonics, Archaean, reviewed, 12–15
——, Proterozoic, reviewed, 11–12
——, as uniformitarian key to past, 7–19
plate-driving mechanism, modelling of, 941–51
plate-moving mechanisms, constraints and controversies, 923–6
——, relative importance, 927–40
——, [thematic set] and:
geological evidence for a global tectonic polarity, 991–1002
geochemical signatures of basalts and mantle dynamics, 977–90
Introduction: plate-moving mechanisms, 923–6
pattern of mantle convection and Pangaea break-up, 953–64
plate-moving mechanisms, relative importance, 927–40
the development of oceanic microplates, 965–76
PLATT, J.P., *see* PLATZMAN, E.S.
PLATZMAN, E.S., PLATT, J.P. & OLIVIER, P., palaeomagnetic

rotations and fault kinematics in the Rif Arc of Morocco, 707–18, figs
plutonism, and mineralization, diachronous, in Cornubian Batholith, SW England, 1183–91
——, place and time in, (H.H. Read), 1010–12
Poland, SW, U-Pb ages from Caledonian suture zone, 355–69
polarity, global tectonic, geological evidence for, 991–1002
POLLARD, J.E., GOLDRING, R. & BUCK, S.G., ichnofabrics containing Ophiomorpha: significance in shallow-water facies interpretation, 149–64, figs
——, *see* GOLDRING, R.
POOLE, E.G., on early to mid-Cretaceous tectonics and unconformities of the Wessex Basin (southern England) [discussion of: Ruffell], 799–800, fig.
Portpatrick tract, of N Belt of S Uplands, structure, 344–6
Portslogan tract, of N Belt of S Uplands, structure, 342–4
Portugal, U-Pb zircon age for Lagoa augen gneiss in Morais complex, 405–10
POWELL, J.H., *see* GLOVER, B.W.
POWER, G.M., geochemical differences between the Cadomian granites of Mancellia and the St Malo migmatites, Armorican Massif, France [Special], 465–8, figs
POWYS, R.I.L., *see* MCLAREN, P.
Precambrian crustal development, and mafic magmatism, 625–35
Precambrian and early Palaeozoic reconstructions, changes in, 665–8
Precambrian Wilson Cycle, Sudan, evidence from Nakasib suture, 393–404
President Beaches Formation, of Mesozoic Byers Group, Antarctica, 1082–3
Preston, J., *see* Lyle, P.
primo episodes, oceanic states, defined and applied to Silurian, 501–13
Proterozoic, anorogenic magmatism and orogenic connections, 39–50
——, Sudan, structure of Nakasib suture of, 1065–74
——, Uniformitarianism in, 7–11
Proterozoic arc–accretionary orogens, anorogenic magmatism in, 41–5
Proterozoic to Early Palaeozoic tectonism, Antarctica, and supercontinental fragmentation, 833–42
Proterozoic plate tectonics, 11–12
pyroxene granulites, garnet granulites, and Kohistan–Asian collision, N India, 844–9
Rb-Sr ages, gabbros, syenites, monzonites, Tertiary, Kap Gustav Holm, Greenland, 272–3
Rb-Sr data, Dronning Maud Land, Antarctica and Palaeozoic tectonism, 837–40
——, from Rubh'an Eireannaich sill, and origin of Skye granites, 121–4
Rat Island Mudstone, of Freshwater West Formation, ORS, S Wales, palaeosols in, 1116–17
Red Sea Hills, Sudan, Precambrian Wilson Cycle and Nakasib suture, 393–404
reef growth, in stromatoporoid reefs, Silurian Gotland, controlled by sedimentation, 197–205
REES, J.G., *see* EVANS, D.J.
REES, M.N., *see* ROWELL, A.J.
relay ramps, in transfer zones, 1147
reptiles, semi-aquatic (Diapsida), Triassic, 1103–8
RETALLACK, G.J., *see* BESTLAND, E.A.
REX, D.C., *see* MYERS, J.S.
Rhins of Galloway, SW Scotland, structure of S Uplands of, 341–54
Rhodope, Greece, Aegean extension controlled by Oligo-Miocene detachment, 243–6
Rhuddnant Grits, Llandovery, Welsh Basin, turbidites of, 819–22
RIBEIRO, A., PEREIRA, F. & MARQUES, F., on a U-Pb zircon age for the Lagoa augen gneiss, Morais complex, Portugal : tectonic implications [discussion of: DALLMEYER & TUCKER], 409–10
RICHARDS, P., on a tectonic and climatic control of Triassic sedimentation in the Beryl Basin, northern North Sea [discussion of: FROSTICK, *et al.*] 796–8
ridge push, and plate driving mechanism, 944–6
Ridgeway Conglomerate Formation, L ORS, SW Wales, pedogenic mud aggregates in, 469–71
Rif Arc, Morocco, palaeomagnetic rotations and fault kinematics, 707–18
RILEY, N.J., Dinantian (Lower Carboniferous) biostratigraphy and chronostratigraphy in the British Isles [*Volume* 150 *Celebration Paper*], 427–46, figs
RITCHIE, J.D. & HITCHEN, K., on the location and history of the Walls Boundary fault and Moine thrust north and south of Shetland [discussion of: FLINN], 1003–8, figs
Rockall Trough, Vøring Plateau, Tertiary igneous sequences compared with Erlend Complex, 905–7
ROGERS, G. & PANKHURST, R.J., unravelling dates through the ages: geochronology of the Scottish metamorphic complexes [*Volume* 150 *Celebration Paper*], 447–64, figs
RONDOYANNI, T., *see* Van Andel, T.H.,
ROWELL, A.J., REES, M.N., DUEBENDORFER, E.M., WALLIN, E.T., VAN SCHMUS, W.R. & SMITH, E.I., an active Neoproterozoic margin: evidence from the Skelton Glacier area, Transantarctic Mountains, 677–82, figs
ROWLEY, W.J., *see* EVANS, D.J.
ROYCROFT, P., *see* CLIPSTONE, D.
Rubh'an Eireannaich sill, Skye and origin of Skye granites, 121–4
Rudawy Janowickie terrane, SW Poland, in Caledonian suture zone, 360–1
RUDWICK, M.J.S., historical origins of the Geological Society's Journal [*Volume* 150 *Celebration Paper*], 3–6, figs
RUFFELL, A.H., on early to mid-Cretaceous tectonics and unconformities of the Wessex Basin (southern England) [reply to discussion], 799–800, fig.
——, *see* TAYLOR, K.G.
RUSBY, R.I., *see* SEARLE, R.C.
Rusinga Island, Kenya, volcanically influenced palaeosols from, 293–310
Sabeto Volcanic Formation, Miocene, Viti Levu, Fiji, 574–5
Salatib Group, Sudan, and late Precambrian Wilson Cycle, 398–9
SALOMON, J.C., *see* GROCHOWSKI, N.T.L.
Sandvika P-S event, early Silurian, Norway, 505–6
SANO, H., *see* JONES, G.
SAUNDERS, A.D., *see* ZHANG, C.
SAVAGE, R.J.G., vertebrate fissure faunas with special reference to Bristol Channel Mesozoic faunas [*Volume* 150 *Celebration Paper*], 1025–34, figs
Scandinavia, tectonothermal evolution of outboard terranes in Caledonides, 51–6
Scandinavian Caledonides, tectonic history of, from age of Bindal Batholith, Norway, 771–83
SCHREIBER, B.C., *see* LONERGAN, L.
Scotland, geochronology of metamorphic complexes, 477–64
——, Mull, small-fraction melt input to Tertiary basalts, 763–9
——, NE, palaeoecology and sedimentology across Jurassic fault scarp, 323–40
——, NW, Scourie dyke swarm and strike-slip motion in Minches, 653–6
——, Old Red Sandstone, significance of super-mature calcretes in, 871–83
——, structure of western Southern Uplands, 341–54
Scourie Dyke swarm, NW Scotland, and strike-slip motion in Minches, 653–6
Scourie dykes, geochronology of, reviewed, 451–3

sea-floor spreading axes, and plate-moving mechanisms, 933–4
seamount complex, Permian, Mino terrane, Japan, 1169–71
SEARLE, R.C., BIRD, R.T., RUSBY, R.I. & NAAR, D.F., the development of two oceanic microplates: Easter and Juan Fernandez microplates, East Pacific Rise, 965–76, figs
secundo episodes, oceanic states, defined and applied to Silurian, 501–13
sediment transport, using numerical models, English Channel, 683–95
sedimentary structures, Henry Sorby, and current research, 417–25
sedimentation, controlling growth of stromatoporoid reefs, Silurian, Sweden, 197–205
sediments, and organisms, relationship, 137–9
seismic, and gravity data and structure of Blackdown pericline, Mendip Hills, 729–36
seismic reflection data, and deep structure of E Mendip Hills, 1055–63
seismic reflections, within Lake District batholith, N England, 1043–6
SELLWOOD, B.W., structure and origin of limestones [*Volume* 150 *Celebration Paper*], 801–9, figs
SEVASTOPULO, G.D., on detrital magmatic muscovite from the Lower Carboniferous of southwest Ireland: buried granites uncovered? [discussion of: CLIPSTONE & ROYCROFT] 415–6
SHAW, J., *see* LIU, X.
shell beds, fabric, classification, 138–9
Sierra Espuña, Betic Cordillera, proximal deposits at fault-controlled basin margin, 719–27
siliciclastic sequences, marine, influence of subsidence on, 165–7
Silesian, S Wales, depositional model for Coal Measures of, 1121–36
Silurian, Sweden, sedimentation control on growth of stromatoporoid reefs, 197–205
Silurian magnetic field, polarity of, 823–31
Silurian–Devonian, Maine, USA, Early Acadian shear in, 815–8
skeletal concentrations, marine, influence of subsidence on, 165–7
——, in Mesozoic, W India, tools in basin analysis, 169–85
——, and subsidence rate, 165–7
Skelton Glacier area, Antarctica, evidence for Neoproterozoic margin from, 677–82
SKILLING, I.P. incremental caldera collapse of Suswa volcano, Gregory Rift Valley, Kenya, 885–96, figs
Skye, geochemistry of concretions in Valtos Sandstone Formation, 57–66
——, granite origins and Sr-isotope variations in composite sill, 121–4
SMITH, E.I., *see* ROWELL, A.J.
SMITH, I.F., *see* CORNWELL, J.D.
Snipklint Primo episode, early Silurian, Norway, 507–9
Society awards for 1993, 609–10
soil development, on floodplains, geomorphic stability and residence time, 1109–20
SOKOUTIS D., BRUN, J.P., VAN DEN DRIESSCHE, J. & PAVLIDES, S., a major Oligo–Miocene detachment in southern Rhodope controlling north Aegean extension [Special], 243–6, figs
Sole Pit Basin, buried granite batholith and origin of, 255–8
Solund–Stavfjord ophiolite, W Norway, dating and providence of turbiditic cover, 673–6
Solway–Northumberland basin, Maryport fault margin, tectonic history, 247–50
Sorby, H.C., and origin of limestones, 805–7
——, and modern research into sedimentary structures, 417–25
South Shetland Islands, Antarctica, Mesozoic Byers Group of, 1075–87
Sowie Gory terrane, SW Poland, in Caledonian suture zone, 361
Southern Uplands, Scotland, structure of western part of, 341–54
Spain, Calatrava, Cenozoic alkaline volcanism and extensional tectonics, 915–22
——, SE, proximal deposits at fault-controlled Miocene basin margin, 719–27
SPARKS, R.S.J., STASIUK, M.V., GARDEWEG, M. & SWANSON, D.A., welded breccias in andesite lavas, 897–902, figs
SPIRO, B., *see* LESLIE, A.B.
——, *see* WRIGHT, V.P.
Spirodden Secundo episode, early Silurian, Norway, 504–5
Sr-isotope variations, in composite sill, and granite genesis, Skye, 121–4
STASIUK, M.V., *see* SPARKS, R.S.J.
STEPHENS, M.B., KULLERUD, K. & CLAESSON, S., Early Caledonian tectonothermal evolution in outboard terranes, central Scandinavian Caledonides: new constraints from U-Pb zircon dates, 51–6, figs
STERN, R.J., *see* Abdelsalam, M.G.
STEWART, I.S., neotectonics: current themes and future prospects [conference report], 785–7
Stirling Range Formation, W Australia, L Palaeozoic deformation of, 811
Storfjället terrane, Norway, early Caledonian tectonothermal evolution in, 51–6
STOREY, B.C., the changing face of late Precambrian and early Palaeozoic reconstructions [Special], 665–8, figs
STORRS, G.W. & GOWER, D.J., the earliest possible choristodere (Diapsida) and gaps in the fossil record of semi-aquatic reptiles, 1103–7, figs
STRACHAN, R.A., *see* TUCKER, R.D.
stratigraphy, global, in Early Palaeozoic, 21–8
strike-slip motion, Minches, NW Scotland, and Scourie Dyke swarm, 653–6
stromatoporoid reefs, Silurian, Sweden, growth control by sedimentation, 197–205
subduction pull, and plate driving mechanism, 946–8
subduction zones, and plate-moving mechanisms, 930–3
——, and thrust belts, 994–6
subsidence rates, influencing anatomy of marine siliciclastic sequences, 165–7
Sudan, Proterozoic Nakasib suture, structure of, 1065–74
——, tectonic evolution of Nakasib suture and Precambrian Wilson cycle, 393–404
Sudeten batholith terrane, SW Poland, in Caledonian suture zone, 356–60
Suguta Valley, Gregory Rift, Kenya, structure, geochronology, tectonic significance, 751–62
supercontinent, Neoproterozoic, 665–7
superplumes, and cycles of plume activity, 985–6
Suswa volcano, Kenya, incremental caldera collapse in, 885–96
suture zone, between Baltica and Gondwana, Caledonian, SW Poland, 355–69
Svecofennian, Early Proterozoic, and Uniformitarianism, 9
——, early Proterozoic anorogenic magmatism in, 41
SWAINBANK, I.G., *see* FLETCHER, C.J.N.
SWANSON, D.A., *see* SPARKS, R.S.J.
SWARBRICK, R.E., sinistral strike-slip and transpressional tectonics in an ancient oceanic setting: the Mamonia Complex, southwest Cyprus, 381–92, figs
SWEAT hypothesis, and tectonics of E Antarctica, 840–1
——, southwest United States, East Antarctic connection, in Neoproterozoic, 665–6
Sweden, SE, Silurian magnetic polarity in, 826
——, Silurian stromatoporoid reef growth controlled by sedimentation, 197–205
Tansey Green, S Staffordshire, Etruria Formation palaeoenvironments at, 737–50
taphonomic signatures, of shell beds, Mesozoic, W India, and basin analysis, 170–1

TAYLOR, A.M. & GOLDRING, R., description and analysis of bioturbation and ichnofabric, 141–8, figs
TAYLOR, K.G. & RUFFELL, A.H., early Cretaceous environments [conference report], 413–4
TAYLOR, P.N., *see* KANARIS-SOTIRIOU, R.
tectonic polarity, global, geological evidence of, 991–1002
tectonism, and supercontinental fragmentation, Late Proterozoic, Antarctica, 833–42
tectonothermal evolution, in outboard terranes, Scandinavian Caledonides, 51–6
terrane, Mino C Japan, nature and tectonic setting of accreted basalts, 1167–81
terranes, outboard, tectonothermal evolution of, Scandinavian Caledonides, 51–6
Tertiary, NE Atlantic, magmatism in Erlend complex, 903–14
—— SW Europe, correlation of mammalian biochronological and marine magnetic anomaly sequences, 661–4
Tertiary basalts, Giant's Causeway, N Ireland, geochemistry and volcanology, 109–20
——, Mull, Scotland, small-fraction melt input into, 763–9
Tertiary dyke swarm, Fermanagh, N Ireland, from aeromagnetic imagery, 37–8
Tertiary erosion, East Midlands Shelf, UK, 1047–50
——, of UK, 1049
Tertiary Igneous Province, Britain, current research in, 1193–4
Tertiary plutonic centre, Kap Gustav Holm, Greenland, 259–76
Tetuan area, Morocco, palaeomagnetic rotations in, 707–18
thermogravitational diffusion, in magmatic differentiation, 618–9
THOMPSON, R.N., GIBSON, S.A., LEAT, P.T., MITCHELL, J.G., MORRISON, M.A., HENDRY, G.L. & DICKIN, A.P., Early Miocene continental extension-related basaltic magmatism at Walton Peak, northwest Colorado: further evidence on continental basalt genesis, 277–92, figs
Tieton andesite, Washington, USA, welded breccias in, 897–8
tillites, fracture patterns in clasts of, 251–4
TIZARD, R.H., *see* MILLER, J.A.
Tornquist Sea, site of Caledonian suture zone between Baltica and Gondwana, SW Poland, 355–69
Torridonian, geochronology of, reviewed, 454–6
TORSVIK, T.H., *see* Trench, A.
Transantarctic Mountains, active Neoproterozoic margin in, 677–82
transfer zones, in extensional basins, influence on drainage and stratigraphy, 1137–52
transpressional tectonics, Mamonia Complex, SW Cyprus, 381–92
travertine, Pleistocene, Suguta Valley, Kenya, 755–7
TRENCH, A., MCKERROW, W.S., TORSVIK, T.H., LI, Z.X. & MCCRACKEN, S.R., the polarity of the Silurian magnetic field: indications from a global data compilation, 823–31, figs
Triassic, Mercia Mudstone, geochemical variations correlated with borehole geophysical logs, 67–75
Triassic choristoderes (Diapsida), and fossil record of semi-aquatic reptiles, 1103–8
Triassic microfossils, Somerset, 1025–34
Triassic pebbles, derived fossils and Palaeozoic palaeogeography, 219–26
TUCKER, M.E., *see* LESLIE, A.B.
TUCKER, R.D., DALLMEYER, R.D. & STRACHAN, R.A., age and tectonothermal record of Laurentian basement, Caledonides of NE Greenland, 371–9, figs
——, *see* DALLMEYER, R.D.
turbidites, deflection versus reflection in, Rhuddnant Grits, Llandovery, Welsh basin, 819–22
TURNER, M.S., *see* WRIGHT, V.P.
U-Pb ages, SW Poland, evidence for Caledonian suture zone, 355–69
U-Pb isotope analyses, igneous rocks, Caledonides, SW Poland, 357–60
——, Laurentian basement, NE Greenland, 374–7
U-Pb monazite dates, for Cornubian batholith, 1185–7
U-Pb zircon age, for Morais complex, Portugal, 405–10
——, Bindal Batholith, and tectonic history of Helgeland Nappe Complex, Norway, 771–83
——, and tectonothermal evolution in Scandinavian Caledonides, 51–6
U-Pb zircon dating, of Caledonian Solund–Stafjord ophiolite, and provenance of turbiditic cover, 673–36
U-Pb zircon isotopic data from Neoproterozoic margin, Antarctica, 678–81
UK, Tertiary erosion magnitudes on E Midland Shelf of, 1047–50
Ulster, extensional collapse in Dalradian of, 33–6
UNDERHILL, J.R., on the location and history of the Walls Boundary fault and Moine thrust north and south of Shetland [discussion of: FLINN], 1003–8, figs
—— & BRODIE, J.A., structural geology of Easter Ross, Scotland: implications for movement on the Great Glen fault zone, 515–27, figs
Uniformitarianism, modern, plate tectonics as key to past, 7–19
Uranium-bearing materials, fission track counts in, correction method, 1051–4
USA, Maine, Acadian shear in, 815–18
——, welded breccias in andesites, Tieton Andesite, Washington, 897–902
VALSAMI-JONES, E., *see* JONES, G.
Valtos Sandstone Formation, Skye, geochemistry of concretions, 57–66
VAN ANDEL, T.H., PERISSORATIS, C. & RONDOYANNI, T., Quaternary tectonics of the Argolikos Gulf and adjacent basins, Greece, 529–39, figs
VAN SCHMUS, W.R., *see* ROWELL, A.J.
VAN DEN DRIESSCHE, J., *see* SOKOUTIS, D.
Variscan granitoids, in Moravian terrane, SW Poland, 362–3
Variscan periclines, Mendips, deep structure of, 1055–63
Vatutu Sandstone, of Koroimavua Volcanic Group, Miocene, Viti Levu, Fiji, 572
vertebrate fissure faunas, in Bristol Channel Mesozoic, 1025–34
Vindhyan Supergroup, C India, L Palaeozoic deformation of, 811–12
volcanic plumbing systems, 411–12
volcanism, and faulting, Cenozoic, in Ethiopian rift, 99–108
——, intra-plate, and extensional tectonics, Iberia, 915–22
volcanoes, structural evolution and mechanics of, 207–8
volcanology, of Tertiary basalts, Giant's Causeway, N Ireland, 109–20
Wales, Ireland, lead isotope data compared, for Palaeozoic mineralization, 80–1
——, metallogenic evolution constrained by lead isotope modelling, 77–8
——, mineralization in, 77–8
——, N, concealed granite beneath Anglesey, 83–7
——, S, depositional model for Coal Measures, 1121–36
——, ——, palaeosols in ORS alluvial suites, 1109–20
WALLIN, E.T., *see* ROWELL, A.J.
Walls Boundary fault, and Moine thrust, in Shetland (discussion), 1003–8
WALTER, R.C., *see* EBINGER, C.J.
WANG, G.R., *see* ZHANG, C.
Wasdale, Cumbria, seismic reflections within Lake District batholith of, 1043–6
WASTENEYS, H.A.H.P., *see* CHEN, Y.
WATERS, C.N., *see* GLOVER, B.W.
welded breccias, in andesite lavas, 897–902
Welsh Basin, deflection versus reflection in Llandovery turbidites, 819–22
Wessex Basin, structural evolution and basin inversion, 311–22

——, S England, mid-Cretaceous tectonics and unconformities (discussion) 799–800
West Angle Bay, SW Wales, pedogenic mud aggregates in L ORS, 469–71
Westphalian A, and B, S Wales, depositional model for, 1121–36
Westphalian C, palaeoenvironments and volcanicity on S margin of Pennine Basin, England, 737–50
WHATELEY, M.K.G. & HARVEY, P.K., Mineral Resource Evaluation 93 [conference report], 1195–6
WHITE, N. & LATIN, D., subsidence analyses from the North Sea 'triple-junction', 473–88, figs
WIDDOWSON, M., further comments on a geological map of the southern Deccan Traps, India and its structural implications [reply to discussion], 791–5, figs
WIGNALL, P.B., distinguishing between oxygen and substrate control in fossil benthic assemblages, 193–6, figs
—— & PICKERING, K.T., palaeoecology and sedimentology across a Jurassic fault scarp, NE Scotland, 323–40, figs
WILBY, P.R., *see* BRIGGS, D.E.G.
WILKINSON, M., concretions of the Valtos Sandstone Formation of Skye: geochemical indicators of palaeo-hydrology, 57–66, figs
WILLIAMS, G.D. & EATON, G.P., stratigraphic and structural analysis of the Late Palaeozoic–Mesozoic of NE Wales and Liverpool Bay: implications for hydrocarbon prospectivity, 489–99, figs
WILSON, M., geochemical signatures of oceanic and continental basalts: a key to mantle dynamics?, 977–90, figs
——, magmatic differentiation [*Volume* 150 *Celebration Paper*], 611–24, figs
——, plate moving mechanisms: constraints and controversies [introduction], 923–6
Wilson Cycle, Precambrian, Red Sea Hills, Sudan, 393–404
WINCHESTER, J.A., *see* MAX, M.D.
WINDLEY, B.F., Proterozoic anorogenic magmatism and its orogenic connections, 39–50, figs
——, Uniformitarianism today: plate tectonics is the key to the past [*Volume* 150 *Celebration Paper*], 7–19, figs
——, *see* PETTERSON, M.G.
WOLDEGABRIEL, G., *see* EBINGER, C.J.
WRIGHT, V.P., TURNER, M.S., ANDREWS, J.E. & SPIRO, B., morphology and significance of super-mature calcretes from the Upper Old Red Sandstone of Scotland, 871–83, figs
——, *see* MARRIOTT, S.B.
YAMAMOTO, H., contrasting P-T-time paths of the Kohistan granulites and tectonics of the western Himalayas, 843–56, figs
YEMANE, T., *see* EBINGER, C.J.
ZHAI, M., *see* ZHANG, C.
ZHANG, C., ZHAI, M., ALLEN, M.B., SAUNDERS, A.D., WANG, G.R. & HUANG, X., implications of Palaeozoic ophiolites from Western Junggar, NW China, for the tectonics of central Asia, 51–61, figs
ZIEGLER, P.A., plate-moving mechanisms: their relative importance [William Smith Lecture 1992], 927–40, figs